

## CRF Errors Corrected by the STIC Systems Branch

PCTD

Serial Numbr: 10/089,984

CRF Processing Date: 5/1/02  
Edited by: [initials]  
Verif by: [initials] (STIC staff)

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line **ENTERED**
- Edited a format error in the Current Application Data section, specifically:
- 
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- 
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- 
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- 
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included:
- 
- Deleted extra, invalid, headings used by an applicant, specifically:
- 
- Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_
- Inserted mandatory headings, specifically:
- 
- Corrected an obvious error in the response, specifically:
- 
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- 
- Corrected an error in the Number of Sequences field, specifically:
- 
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- 
- Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- 
- Other:  
\_\_\_\_\_  
\_\_\_\_\_

\* Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95



PCT10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,984

DATE: 05/01/2002

TIME: 11:44:38

Input Set : A:\PTO.DC.txt  
 Output Set: N:\CRF3\05012002\J089984.raw

3 <110> APPLICANT: Bumol, Thomas F.  
 4 Cohen, Fredric, J.  
 6 <120> TITLE OF INVENTION: Therapeutic Applications of FLINT Polypeptides  
 8 <130> FILE REFERENCE: X-13199  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/089,984  
 C--> 11 <141> CURRENT FILING DATE: 2002-04-03  
 13 <160> NUMBER OF SEQ ID NOS: 5  
 15 <170> SOFTWARE: PatentIn Ver. 2.0  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 271  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Homo sapiens  
 22 <400> SEQUENCE: 1  
 23 Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu  
 24 1 5 10 15  
 26 Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro  
 27 20 25 30  
 29 Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His  
 30 35 40 45  
 32 Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val  
 33 50 55 60  
 35 Leu Cys Gly Glu Arg Glu Glu Ala Arg Ala Cys His Ala Thr His  
 36 65 70 75 80  
 38 Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe  
 39 85 90 95  
 41 Cys Leu Glu His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro  
 42 100 105 110  
 44 Gly Thr Pro Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr  
 45 115 120 125  
 47 Phe Ser Ala Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn  
 48 130 135 140  
 50 Cys Thr Ala Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His  
 51 145 150 155 160  
 53 Asp Thr Leu Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val  
 54 165 170 175  
 56 Pro Gly Ala Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe  
 57 180 185 190  
 59 Gln Asp Ile Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu  
 60 195 200 205  
 62 Ala Pro Glu Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu  
 63 210 215 220  
 65 Gln Leu Lys Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp  
 66 225 230 235 240

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68 Gly Ala Leu Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met  
 69 245 250 255  
 71 Pro Gly Leu Glu Arg Ser Val Arg Glu Arg Phe Leu Pro Val His  
 72 260 265 270  
 79 <210> SEQ ID NO: 2  
 80 <211> LENGTH: 813  
 81 <212> TYPE: DNA  
 82 <213> ORGANISM: Homo sapiens  
 84 <400> SEQUENCE: 2  
 85 gtggcagaaa caccaccta cccctggcg gacgcagaga caggggagcg gctgggtgtc 60  
 86 gcccagtgcc cccccaggcac ctttgtgcag cgccgtgcc gccgagacag cccacgacg 120  
 87 tggcccccgt gtccaccgcg ccactacacg cagttctgga actaacctgaa gcgtgtccgc 180  
 88 tactgcaacg tcctctgcgg ggagcgttag gaggaggcac gggcttgcca cgccacccac 240  
 89 aaccgtgcct gccgctgccc caccggcttc ttgcgcacg ctggttctg cttggagcac 300  
 90 gcatcggtgc cacctgggtgc cggcgtgatt gccccggca ccccaagcca gaacacgcag 360  
 91 tgccagccgt gccccccagg caccttctca gccagcagct ccagctcaga gcagtgcac 420  
 92 cccccaccgca actgcacggc cttggccctg gcccctaatt tgccaggctc ttccctccat 480  
 93 gacaccctgt gcaccagctg cactggcttc cccctcagca ccagggtacc aggagctgag 540  
 94 gagtgtgagc gtggcgtcat cactttgtg gctttccagg acatctccat caagaggctg 600  
 95 cagcggctgc tgcagccct cgaggccccg gagggtctgg gtccgacacc aaggggcggc 660  
 96 cgccggccct tgcagctgaa gtcgcgtcgg cggctcacgg agctcctggg ggcgcaggac 720  
 97 gggggcgtgc tggcggct gtcgcaggcg ctgcgcgtgg ccaggatgcc cgggctggag 780  
 98 cggagcgtcc gtgagcgctt cttccctgtg cac 813  
 100 <210> SEQ ID NO: 3  
 101 <211> LENGTH: 300  
 102 <212> TYPE: PRT  
 103 <213> ORGANISM: Homo sapiens  
 105 <400> SEQUENCE: 3  
 106 Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys Leu Val Leu  
 107 1 5 10 15  
 109 Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly Val Ala Glu  
 110 20 25 30  
 112 Thr Pro Thr Tyr Pro Trp Arg Asp Ala Glu Thr Gly Glu Arg Leu Val  
 113 35 40 45  
 115 Cys Ala Gln Cys Pro Pro Gly Thr Phe Val Gln Arg Pro Cys Arg Arg  
 116 50 55 60  
 118 Asp Ser Pro Thr Thr Cys Gly Pro Cys Pro Pro Arg His Tyr Thr Gln  
 119 65 70 75 80  
 121 Phe Trp Asn Tyr Leu Glu Arg Cys Arg Tyr Cys Asn Val Leu Cys Gly  
 122 85 90 95  
 124 Glu Arg Glu Glu Ala Arg Ala Cys His Ala Thr His Asn Arg Ala  
 125 100 105 110  
 127 Cys Arg Cys Arg Thr Gly Phe Phe Ala His Ala Gly Phe Cys Leu Glu  
 128 115 120 125  
 130 His Ala Ser Cys Pro Pro Gly Ala Gly Val Ile Ala Pro Gly Thr Pro  
 131 130 135 140  
 133 Ser Gln Asn Thr Gln Cys Gln Pro Cys Pro Pro Gly Thr Phe Ser Ala  
 134 145 150 155 160  
 136 Ser Ser Ser Ser Glu Gln Cys Gln Pro His Arg Asn Cys Thr Ala

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Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF3\05012002\J089984.raw

137	165	170	175
139 Leu Gly Leu Ala Leu Asn Val Pro Gly Ser Ser Ser His Asp Thr Leu			
140	180	185	190
142 Cys Thr Ser Cys Thr Gly Phe Pro Leu Ser Thr Arg Val Pro Gly Ala			
143	195	200	205
145 Glu Glu Cys Glu Arg Ala Val Ile Asp Phe Val Ala Phe Gln Asp Ile			
146	210	215	220
148 Ser Ile Lys Arg Leu Gln Arg Leu Leu Gln Ala Leu Glu Ala Pro Glu			
149	225	230	235
151 Gly Trp Gly Pro Thr Pro Arg Ala Gly Arg Ala Ala Leu Gln Leu Lys			
152	245	250	255
154 Leu Arg Arg Arg Leu Thr Glu Leu Leu Gly Ala Gln Asp Gly Ala Leu			
155	260	265	270
157 Leu Val Arg Leu Leu Gln Ala Leu Arg Val Ala Arg Met Pro Gly Leu			
158	275	280	285
160 Glu Arg Ser Val Arg Glu Arg Phe Leu Pro Val His			
161	290	295	300
164 <210> SEQ ID NO: 4			
165 <211> LENGTH: 29			
166 <212> TYPE: PRT			
167 <213> ORGANISM: Homo sapiens			
169 <400> SEQUENCE: 4			
170 Met Arg Ala Leu Glu Gly Pro Gly Leu Ser Leu Leu Cys Leu Val Leu			
171	1	5	10
173 Ala Leu Pro Ala Leu Leu Pro Val Pro Ala Val Arg Gly			
174	20	25	
177 <210> SEQ ID NO: 5			
178 <211> LENGTH: 936			
179 <212> TYPE: DNA			
180 <213> ORGANISM: Homo sapiens			
182 <220> FEATURE:			
183 <221> NAME/KEY: CDS			
184 <222> LOCATION: (25)..(924)			
186 <400> SEQUENCE: 5			
187 gctctccctg ctccagcaag gacc atg agg gcg ctg gag ggg cca ggc ctg			51
188	Met Arg Ala Leu Glu Gly Pro Gly Leu		
189	1	5	
191 tcg ctg ctg tgc ctg gtg gcc ctg cct gcc ctg ctg ccg gtg ccg			99
192 Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro Val Pro			
193	10	15	20
195 gct gta cgc gga gtg gca gaa aca ccc acc tac ccc tgg ccg gac gca			147
196 Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg Asp Ala			
197	30	35	40
199 gag aca ggg gag cgg ctg gtg tgc gcc cag tgc ccc cca ggc acc ttt			195
200 Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly Thr Phe			
201	45	50	55
205 gtg cag cgg cgg tgc cgc cga gac agc ccc acg acg tgt ggc ccg tgt			243
206 Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly Pro Cys			
207	60	65	70

RAW SEQUENCE LISTING  
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TIME: 11:44:38

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Output Set: N:\CRF3\05012002\J089984.raw

209	cca	ccg	cgc	cac	tac	acg	cag	ttc	tgg	aac	tac	ctg	gag	cgc	tgc	cgc	291
210	Pro	Pro	Arg	His	Tyr	Thr	Gln	Phe	Trp	Asn	Tyr	Leu	Glu	Arg	Cys	Arg	
211	75				80						85						
213	tac	tgc	aac	gtc	ctc	tgc	ggg	gag	cgt	gag	gag	gag	gca	cgg	gct	tgc	339
214	Tyr	Cys	Asn	Val	Leu	Cys	Gly	Glu	Arg	Glu	Glu	Ala	Arg	Ala	Cys		
215	90				95					100		105					
217	cac	gcc	acc	cac	aac	cgt	gcc	tgc	cgc	tgc	cgc	acc	ggc	ttc	ttc	gcg	387
218	His	Ala	Thr	His	Asn	Arg	Ala	Cys	Arg	Cys	Arg	Thr	Gly	Phe	Phe	Ala	
219					110					115		120					
221	cac	gct	ggt	ttc	tgc	ttg	gag	cac	gca	tcg	tgt	cca	cct	ggt	gcc	ggc	435
222	His	Ala	Gly	Phe	Cys	Leu	Glu	His	Ala	Ser	Cys	Pro	Pro	Gly	Ala	Gly	
223					125					130		135					
225	gtg	att	gcc	ccg	ggc	acc	ccc	agc	cag	aac	acg	cag	tgc	cag	ccg	tgc	483
226	Val	Ile	Ala	Pro	Gly	Thr	Pro	Ser	Gln	Asn	Thr	Gln	Cys	Gln	Pro	Cys	
227					140					145		150					
229	ccc	cca	ggc	acc	ttc	tca	gcc	agc	agc	tcc	agc	tca	gag	cag	tgc	cag	531
230	Pro	Pro	Gly	Thr	Phe	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Glu	Gln	Cys	Gln	
231					155					160		165					
233	ccc	cac	cgc	aac	tgc	acg	gcc	ctg	ggc	ctg	gcc	ctc	att	gtg	cca	ggc	579
234	Pro	His	Arg	Asn	Cys	Thr	Ala	Leu	Gly	Leu	Ala	Leu	Ile	Val	Pro	Gly	
235					170					175		180		185			
237	tct	tcc	tcc	cat	gac	acc	ctg	tgc	acc	agc	tgc	act	ggc	ttc	ccc	ctc	627
238	Ser	Ser	Ser	His	Asp	Thr	Leu	Cys	Thr	Ser	Cys	Thr	Gly	Phe	Pro	Leu	
239					190					195		200					
241	agc	acc	agg	gta	cca	gga	gct	gag	gag	tgt	gag	cgt	gcc	gtc	atc	gac	675
242	Ser	Thr	Arg	Val	Pro	Gly	Ala	Glu	Glu	Cys	Glu	Arg	Ala	Val	Ile	Asp	
243					205					210		215					
245	ttt	gtg	gct	ttc	cag	gac	atc	tcc	atc	aag	agg	ctg	cag	ccg	ctg	ctg	723
246	Phe	Val	Ala	Phe	Gln	Asp	Ile	Ser	Ile	Lys	Arg	Leu	Gln	Arg	Leu	Leu	
247					220					225		230					
249	cag	gcc	ctc	gag	gcc	ccg	gag	ggc	tgg	gct	ccg	aca	cca	agg	gcg	ggc	771
250	Gln	Ala	Leu	Glu	Ala	Pro	Glu	Gly	Trp	Ala	Pro	Thr	Pro	Arg	Ala	Gly	
251					235					240		245					
253	cgc	gcg	gcc	ttg	cag	ctg	aag	ctg	cgt	ccg	ccg	ctc	acg	gag	ctc	ctg	819
254	Arg	Ala	Ala	Leu	Gln	Leu	Lys	Leu	Arg	Arg	Arg	Leu	Thr	Glu	Leu	Leu	
255					250					255		260		265			
257	ggg	gcf	cag	gac	ggg	gcf	ctg	ctg	gtg	ccg	ctg	ctg	cag	gcf	ctg	cgc	867
258	Gly	Ala	Gln	Asp	Gly	Ala	Leu	Leu	Val	Arg	Leu	Leu	Gln	Ala	Leu	Arg	
259					270					275		280					
263	gtg	gcc	agg	atg	ccc	ggg	ctg	gag	ccg	agc	gtc	cgt	gag	cgc	ttc	ctc	915
264	Val	Ala	Arg	Met	Pro	Gly	Leu	Glu	Arg	Ser	Val	Arg	Glu	Arg	Phe	Leu	
265					285					290		295					
267	cct	gtg	cac	tgatcctggc	cc											936	
268	Pro	Val	His														
269				300													

RAW SEQUENCE PEGGING ERROR SUMMARY  
PATENT APPLICATION: US/10/089,984

DATE: 01/01/2002  
TIME: 11:44:39

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF3\05012002\J089984.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44  
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VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/089,984

DATE: 01/01/2002  
TIME: 11:44:39

Input Set : A:\PTO.DC.txt  
Output Set: N:\CRF3\05012002\J089984.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date